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8/11/04

Claims

[c1] (Currently Amended) I claim a stationary annature self commutating machine comprising: (a) a stationary annature including multiple sets of lap or wave windings connected in series having multiple taps each attached to one stationary commutator segment; (b) a rotor comprised of a coil or a permanent magnet as a means for inducing a steady state magnetic field encompassed by said stationary annature; (c) ~~a stationary commutating assembly comprising a plurality of commutator segments each electrically insulated for the other being fixed to the machine housing;~~ and (d) a rotating brush assembly being affixed to said rotor and comprising a plurality of brushes arranged in sub-assemblies held in place by a non-conducting support base ~~as a means for electrical insulation;~~ (e) a first and second sub-assembly each consisting of at least two brushes, two copper brush holders ~~[[.]]; (f) one brush keeper or shunt having a curved surface at one end contacting the top of each brush, a counter weight at the other opposite end counteracting the centrifugal forces occasioned by said brushes, and forming a shunt being said two brushes [[.]]; (g) a fulcrum situated at said the copper brush keeper's center of gravity and attached to said non-conducting support base, having equal and opposite moments occasioned by said brushes and counterweight providing a limited predetermined range of yaw within the sub-assembly's plane of rotation; (h) and a retaining spring as a means for containing the brushes within said copper brush holder; (i) a first and second stationary, conductive slip ring as a means for current flow between a power source, stationary~~